AAKASHDEEP SRIVASTAVA

Gurgaon, HR

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Education

Indian Institute of Technology, Madras **September 2021 - September 2025**
Bachelor of Science in Data Science & Applications

Institute of Technology, Guru Ghasidas (Central) University (ITGGU) **August 2019 - June 2023**
Bachelor of Technology in Mechanical Engineering — CGPA: 8.7/10

Experience

EduGorilla Community Pvt. Ltd. **August 2024 - Present**
AI Engineer *MLOPs, PEFT, Python, AWS-Cloud, Streamlit*

- Implemented PEFT fine-tuning for Qwen-3B using Amazon SageMaker, optimizing K-8 educational model training across 3-6 epochs while reducing GPU memory usage by 60% compared to full fine-tuning
- Collaborated with 3 engineering teams to implement MLflow evaluation pipeline, documenting results for stakeholders and enabling cross-team experiment tracking for 100+ models
- Architected microservices-based video generation pipeline using Gemini Pro, ElevenLabs, and Rhubarb Lip Sync, processing 50+ concurrent requests with 98% viseme accuracy for educational content
- Automated exam notification system using SmartScraper AI, processing 1000+ government notifications daily with 99% accuracy, increasing user engagement by 40%

Selected Projects

EduMate: Multi-Modal Learning Platform 🐙 |*Hack2Skill AI for Impact* **December 2024**

- Architected a 3D learning environment with avatars and **real-time sign language recognition** (95% accuracy), integrating emotion detection to support students with **autism** in understanding social cues and facial expressions.
- Engineered real-time speech-to-image generation system with canvas-based sketching, achieving 90% user satisfaction across 500+ voice commands and reducing content creation time by 60%
- Architected Node.js/Express backend with WebSocket integration, scaling to handle 100+ concurrent video streams while maintaining ¡100ms latency for real-time canvas interactions

Police PRM: Performance & Resource Management 🐙 | *Hack2Skill Karnataka Datathon2.0* **June 2024**

- Designed PowerBI analytics dashboard processing data from 50+ police stations, reducing resource allocation time by 60% and improving response time by 40%
- Implemented Airtable-based real-time tracking system handling 1000+ daily updates, reducing manual data entry by 80% and enabling 5-minute decision cycles

Technical Skills

Languages/Libraries: Python, R, Flask, Streamlit, JavaScript, TensorFlow, NLTK, spaCy, TensorFlow, PyTorch
Big Data: Hadoop, HDFS, MapReduce, Hive, SparkSQL, Kafka, Zookeeper, Airflow, PySpark
Visualization Tools: Power BI, MS Excel, Tableau
Database: MySQL, NoSQL (MongoDB), Vector Databases (Chroma, AstraDB)
Other Tools: Git, Docker, MLFlow, Data Version Control (DVC)
Certification: Microsoft Data Analyst (PL300), SnowPro, Webflow, Machine Learning Operations Specialization

Relevant Coursework & Research work

- Data Visualization & Reporting
- Business Intelligence
- Predictive Data Modeling
- Database Management
- Machine Learning
- Deep Learning
- AWS & Azure Cloud
- Generative AI
- **V-Frame Octocopter** 🔗

Leadership / Achievements

Technicals **January 2022 - June 2023**
Super Coordinator *IIT Madras*

- Identified new sponsorship opportunities and **secured 5 Lakhs in sponsorships** for 18 Hackathons Paradox'23.
- Cultivated relationships with 15+ industry leaders as Corporate Relations Executive, successfully negotiating partnerships and coordinating communication between judges, influencers, and organizing teams
- Led cross-functional team of 6 designers and writers as Design Head, implementing reader feedback to grow newsletter engagement by 50% through collaborative content strategy

Ranked 2nd out of 900 teams for PRM App in Karnataka State police datathon'24 🐙 **Hack2skill**
Third Place, GenAI Hackathon 🐙 **IIT Madras**
Certificate of Excellence in ML Challenge 2.0 🐙 **IIT Madras**
Winner of Product Space GenAI Hackathon For GTM Strategy 🔗 **Product Space**